

**ABSTRACT**

An apparatus for programmably controlling the operation of a water heater having a programmable timer coupled to the water heater for establishing predetermined times of when the water heater should operate. The programmable controller allows for the operation of a solenoid valve which controls the flow of natural gas to a burner. The present invention may utilize a conventional 110/120 volt power source as provided in a power vented gas water heater or an electrical water heater, or the present invention may utilize a thermopile as a mini generator by which to power the programmable timer and solenoid.